## Quizz 3 - DB & ActiveRecord Full name Q1 - What's a relational database? Q2 - What are the different "table relationships" you know? Q3 - Consider this e-library service. An author, defined by his name have several books. A book, defined by its title and publishing year, has one author only. What's this simple database scheme. Please draw it! Q4 - A user, defined by his email, can read several books. A book (e-book!!) can be read by several user. We also want to keep track of reading dates. Improve your e-library DB scheme with relevant tables and relationships. Q5 - What's the language to make queries to a database? Q6 - What's the simple query to get books written before 1985? Q7 - What's the simple query to get 3 last books written by Jules Verne?

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Q8 - What's the purpose of ActiveRecord?
Q9 - What's a migration? How do you run a migration?
Q10 - Complete migrations to create your e-library database.
    class CreateAuthors < ActiveRecord::Migration[5.0]</pre>
  2
        def change
  3
          create_table :authors do |t|
  4
  5
  6
  7
        end
  8 end
     class CreateBooks < ActiveRecord::Migration[5.0]</pre>
  2
        def change
  3
  4
  5
  6
  7
        end
  8
    end
  1
     class CreateUsers < ActiveRecord::Migration[5.0]</pre>
  2
        def change
  3
  4
  5
  6
  7
        end
  8
    end
     class CreateReadings < ActiveRecord::Migration[5.0]</pre>
  1
  2
        def change
  3
  4
  5
  6
  7
        end
  8
     end
Q11 - Write a migration to add a column category to the books table.
   1
     class AddCategoryToBook < ActiveRecord::Migration[5.0]</pre>
  2
        def change
```

3	
4	
5	end
6	end

Q12 asso	- Define an ActiveRecord model for each table of your DB. Add the ActiveRecord ciations between models.	
1 2 3 4	class	
Q13 - Complete following code using the relevant ActiveRecord methods.		
1 2	#1. Add your favorite author to the DB	
3	#2. Get all authors	
5	#3. Get author with id=8	
6 7	#4. Get author with name="Jules Verne", store it in a variable: jules	
8 9	#5. Get Jules Verne's books	
10 11	#6. Create a new book "20000 Leagues under the Seas", it's missing in DB.	
12 13	# Store it in a variable: twenty_thousand	
14	#7. Add Jules Verne as this book's author	
15 16	#8. Now save this book in the DB!	
17 18	# The end	
Q14 - Add validations of your choice to the Author class. Can we save an object in DB if its		
valid	ations do not pass?	